

SAP2000 Steel Design

Project _____
 Job Number _____
 Engineer _____

AISC-LRFD93 STEEL SECTION CHECK

Combo : DSTL2
 Units : N, mm, C

Frame : 512	Design Sect: KK		
X Mid : -2785.900	Design Type: Brace		
Y Mid : -10316.335	Frame Type : Moment Resisting Frame		
Z Mid : 12479.466	Sect Class : Compact		
Length : 1199.933	Major Axis : 0.000 degrees counterclockwise from local 3		
Loc : 1199.933	RLLF : 1.000		
Area : 2704.000	SMajor : 178688.853	rMajor : 81.292	AVMajor: 1200.000
IMajor : 17868885.333	SMinor : 26732.907	rMinor : 22.233	AVMinor: 1333.333
IMinor : 1336645.333	ZMajor : 204384.000	E : 199947.979	
Ixy : 0.000	ZMinor : 41656.000	Fy : 240.000	

STRESS CHECK FORCES & MOMENTS

Location	Pu	Mu33	Mu22	Vu2	Vu3	Tu
1199.933	-26260.425	-17656081.3	-1270649.70	11392.448	1624.895	-7188.710

PMM DEMAND/CAPACITY RATIO

Governing	Total	P	MMajor	MMinor	Ratio	Status
Equation	Ratio	Ratio	Ratio	Ratio	Limit	Check
(H1-lb)	0.580	= 0.028	+ 0.406	+ 0.147	0.950	OK

AXIAL FORCE DESIGN

	Pu	phi*Pnc	phi*Pnt
	Force	Capacity	Capacity
Axial	-26260.425	472876.865	584064.000

MOMENT DESIGN

	Mu	phi*Mn	Cm	B1	B2	K	L	Cb
	Moment	Capacity	Factor	Factor	Factor	Factor	Factor	Factor
Major Moment	-17922960.6	44146944.0	1.000	1.015	1.000	1.000	3.727	1.445
Minor Moment	-1270649.70	8661461.760	0.386	1.000	1.000	1.000	1.000	

SHEAR DESIGN

	Vu	phi*Vn	Stress	Status	Tu
	Force	Capacity	Ratio	Check	Torsion
Major Shear	11392.448	155520.000	0.073	OK	0.000
Minor Shear	1624.895	172800.000	0.009	OK	0.000